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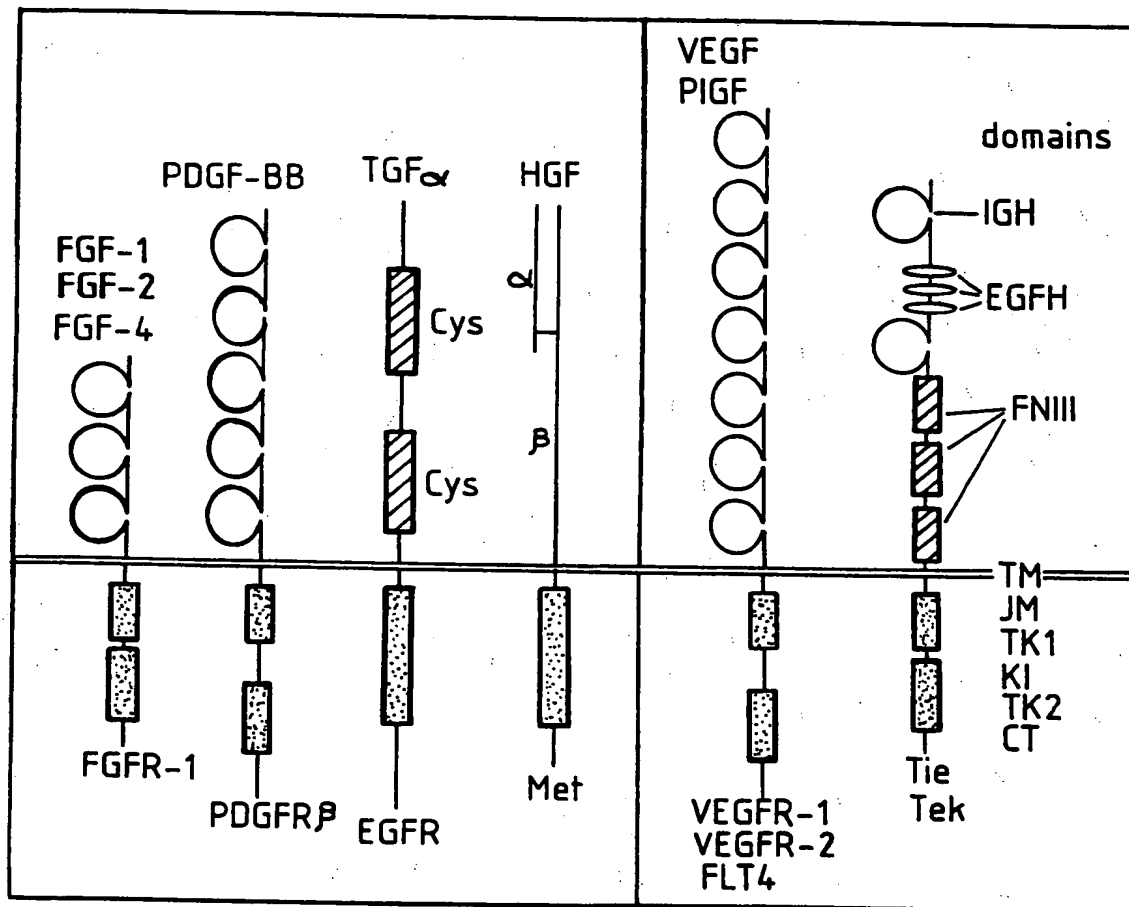


FIG. 1

1	PDGF-A	.....	.....	.....	.....	50
	PDGF-B	.....	.....	.....	.....MRTLACLLL	
	PIGF-1	.....	.....	.....	.....MNRCA.LFL	
	VEGF165	.....	.....	.....	.....	
	VEGF-B167	.....	.....	.....	.....	
	VEGF-C	MHLGFFSVA	CSLLAAALLP	GPREAPAAA	AFESGLDLS	AEPDAGEATA
51	PDGF-A	LGGYLAHV	AEAEIPREV	IERLARSQIH	SIRDQLRLL	IDSVGSEDSL
	PDGF-B	SLCCYLRLVS	AECDPIPEEL	YEMLSHSIR	SFDDQLRLLH	GDP.GEEDGA
	PIGF-1	.....	.....MPVM	RLPFC..FLQ	LLAGLAL...	PAVPPQQW..
	VEGF165	.....	.....M	NFLLS..WVH	WSLALLLYLH	HAKWSQAA..
	VEGF-B167	.....	.....M	SPLLR..RL	LAALLQLAPA	QAPVSQP...
	VEGF-C	YASKDLEEQL	RSVSSVDELM	TVLYPEYWK	YKQLRKGGW	QHNREQANLN
101	PDGF-A	DTSLRAHGVH	ATKHVPEKRP	LPIRRKRSI.	.....EAVP	AVCKTRTVIY
	PDGF-B	ELDLNMTRSH	SGGELES...	.LARGRRSLG	SLTIAEPAMI	AECKTRTEVF
	PIGF-1	.....ALSAG	NGSSEVEVP	FQE.VWGR..	.....	SYCRALERLV
	VEGF165	.....PMAEG	GGQNHHEVVK	FMD.VYQR..	.....	SYCHPIETLV
	VEGF-B167	.....D	APGHQKVVVS	WID.VYTR..	.....	ATCQPREVVV
	VEGF-C	SRTEETIKFA	AAHYNTEILK	SIDNEWRK..	.....	TQCMPEVCI
151	PDGF-A	EIPRSQVDPT	SANFLIWPPC	VEVKRCTGCC	NTSSVKCQPS	RVHHRSVKVA
	PDGF-B	EISRRLLDRT	NANFLVWPPC	VEVQRCSCGC	NNRVQCRT	QVQLRPVQVR
	PIGF-1	DWSEYPSV	..EHMFSPSC	VSLRCTGCC	GDENLHCVPV	ETANVTMQLL
	VEGF165	DIFQEYDEI	..EYIFKPSC	VPLMRCCGCC	NDEGLECVPT	EESNITMQIM
	VEGF-B167	PLTVELMGTV	..AKQLVPSC	VTVQRCGGCC	PDDGLECVPT	GQHQRVMQIL
	VEGF-C	DVGKEFGVAT	..NTFFKPPC	VSIVRCGGCC	NSEGLQCMNT	STSYLSKTLF
200	PDGF-A	EIPRSQVDPT	SANFLIWPPC	VEVKRCTGCC	NTSSVKCQPS	RVHHRSVKVA
	PDGF-B	EISRRLLDRT	NANFLVWPPC	VEVQRCSCGC	NNRVQCRT	QVQLRPVQVR
	PIGF-1	DWSEYPSV	..EHMFSPSC	VSLRCTGCC	GDENLHCVPV	ETANVTMQLL
	VEGF165	DIFQEYDEI	..EYIFKPSC	VPLMRCCGCC	NDEGLECVPT	EESNITMQIM
	VEGF-B167	PLTVELMGTV	..AKQLVPSC	VTVQRCGGCC	PDDGLECVPT	GQHQRVMQIL
	VEGF-C	DVGKEFGVAT	..NTFFKPPC	VSIVRCGGCC	NSEGLQCMNT	STSYLSKTLF

FIG. 2A



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201  
PDGF-A KVEYVRKKPK LKEVQVRLEE HLEACAT.. ..... TSLNPDYREE 250  
PDGF-B KIEIVRKKPI FKKATVTLED HLAACKCETVA AARPVTRSPG GSQEQRAKTP  
PIGF-1 KIRSG..DRP .SYVELTFSQ HVRCECRPLR EK.....  
VEGF165 RIKPH..QGQ .HIGEMSFLQ HNKCECRPKK DR.....  
VEGF-B167 MIRYP..SSQ ..LGEMSLEE HSQCECRPKK KD.....  
VEGF-C EITVPLSQGP .KPVITISFAN HTSCRCMSKL DVYRQVHSII RRSPLATLPQ

251  
PDGF-A DTDVR..... 300  
PDGF-B QTRVTIRTVR VRRPPKGKHR KFKHTHDKTA LKETLGA...  
PIGF-1 ..... MKPERCGDA VPRR.....  
VEGF165 ..... ARQENPCGP CSERRKHLFV  
VEGF-B167 .....S AVKPDSPRPL CPRCTQHHQR  
VEGF-C CQAANKTCPT NYMWNHICR CLAQEDFMFS SDAGDDSTDG FHDICGPNKE

301  
PDGF-A ..... 350  
PDGF-B .....  
PIGF-1 .....  
VEGF165 QDPQTCCKSC KNTDS.RCKA RQLELNERTC RCDKPRR...  
VEGF-B167 PDPRTCRCRC RRRSFLRCQG RGLELNPDTC RCRKLRR...  
VEGF-C LDEETCQCVC RAGLRPASCG PHKELDRNSC QCVCKNKLFP SQCGANREFD

FIG. 2B



	401		434
PDGF-A	.....	.....	.....
PDGF-B	.....	.....	.....
PlGF-1	.....	.....	.....
VEGF165	.....	.....	.....
VEGF-B167	.....	.....	.....
VEGF-C	RPCTNRQKAC	EPGFSYSEEV	CRCVPSYWKR PQMS

**FIG. 2C**

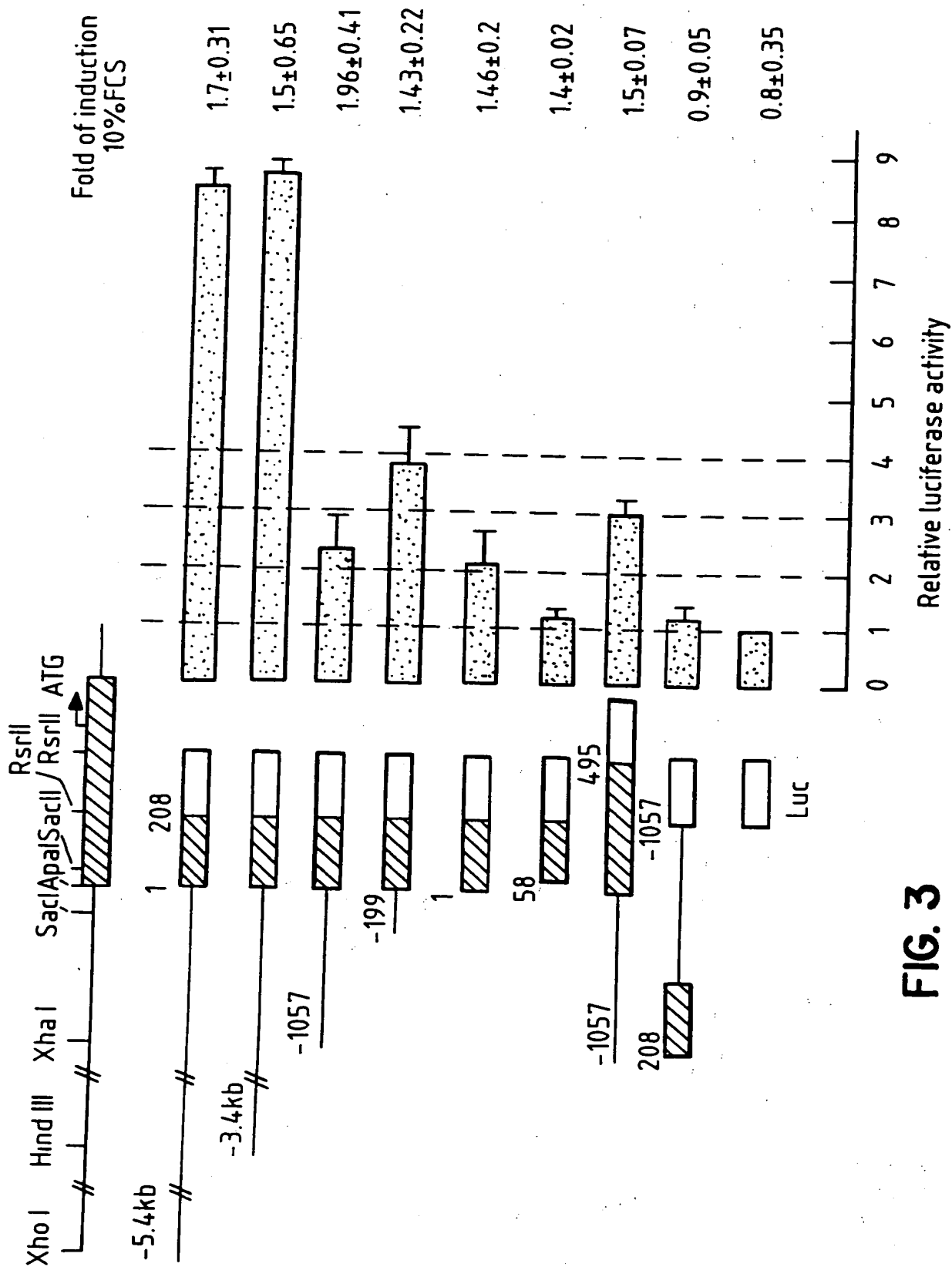
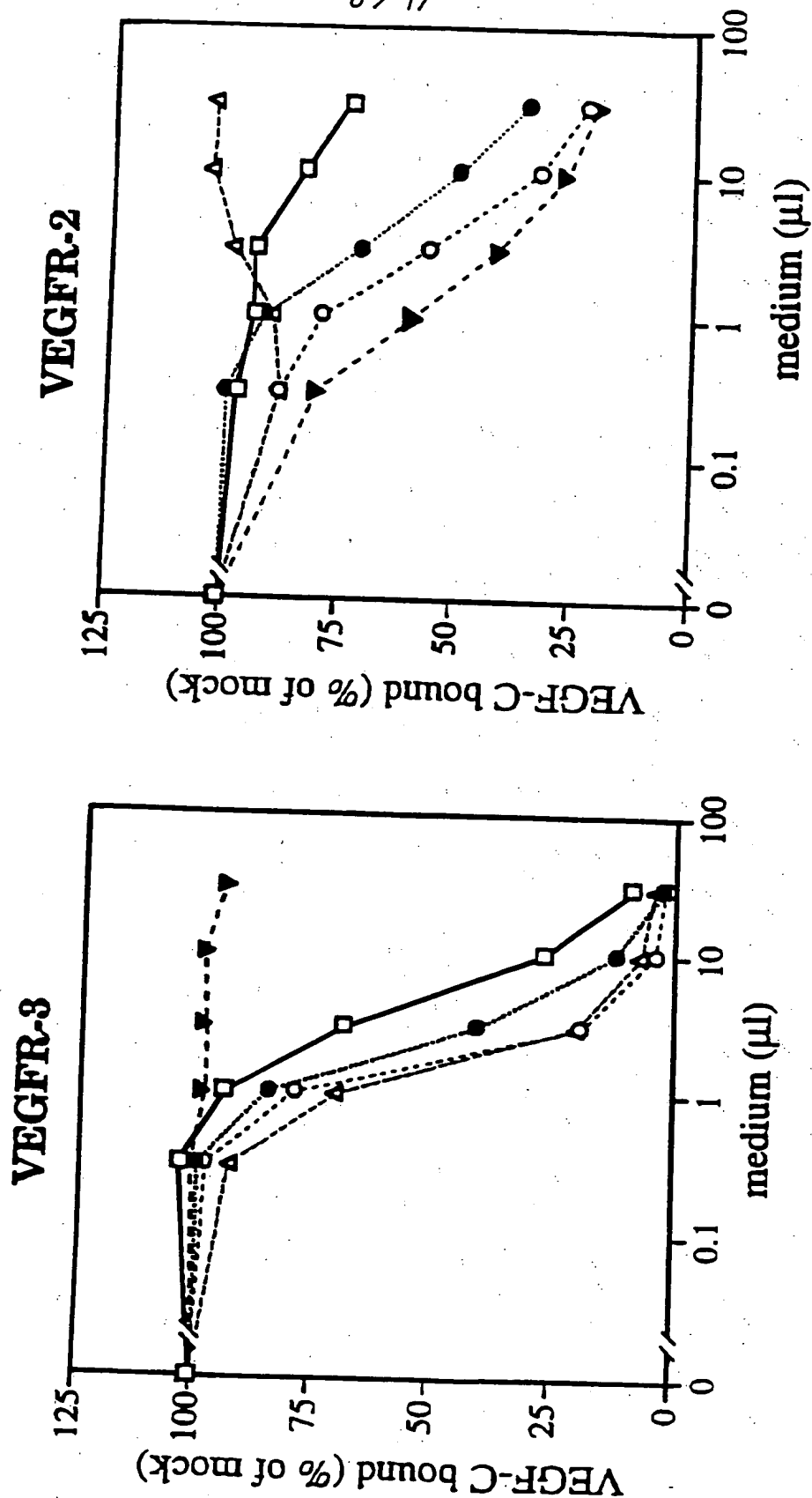


FIG. 3

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FIG. 4





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VEGF-C alignment

	1				50
Hum	HMLLGFFSVA	CSLLAAALLP	GPREADAAAA	AFESGLDLSD	AEPDAGEATA
Mou	MHLLCFLSLA	CSLLAAALIP	SPREADATVA	AFESGLGFSE	AEPDGGGEVKA
Qua	MHLLLEMLSLG	CCLAAGAVLL	GPRQPPVA.A	AYESGHGYE	EEPGAGEPKA
	51				100
Hum	YASKDLEEQL	RSVSSVDELM	TVLYPEYWKM	YKQLRKGGW	QHNREQANLN
Mou	FEGKDLEEQL	RSVSSVDELM	SVLYPDYWKM	YKQLRKGGW	Q....QPTLN
Qua	HASKDLEEQL	RSVSSVDELM	TVLYPEYWKM	FKQLRKGGW	QHNREHSSSD
	101				150
Hum	SRTEETIKFA	AAHYNTEILK	SIDNEWRTQ	CMPREVCIDV	GKEFGVATNT
Mou	TRTGDSVKFA	AAHYNTEILK	SIDNEWRTQ	CMPREVCIDV	GKEFGAATNT
Qua	TRSDDSLKFA	AAHYNAEILK	SIDTEWRTQ	GMPREVCVDL	GKEFGATTNT
	151				200
Hum	FFKPPCVSVY	RCGGCCNSEG	LQCMNTSTSY	LSKTLFEITV	PLSQGPKPVT
Mou	FFKPPCVSVY	RCGGCCNSEG	LQCMNTSTGY	LSKTLFEITV	PLSQGPKPVT
Qua	FFKPPCVSIY	RCGGCCNSEG	LQCMNISTNY	ISKTLFEITV	PLSHGPKPVT
	201				250
Hum	ISFANHTSCR	CMSKLDVYRQ	VHSIIRSLP	ATLPQCOAAN	KTCPTNYMWN
Mou	ISFANHTSCR	CMSKLDVYRQ	VHSIIRSLP	ATLPQCOAAN	KTCPTNYVWN
Qua	VSFANHTSCR	CMSKLDVYRQ	VHSIIRSLP	ATQTQCHVAN	KTCPKNHVWN
	251				300
Hum	NHICRCLAQE	DFMFSSDAGD	DSTDGFHDIC	GPKNELDEET	CQCVCRAGLR
Mou	NYMCRCLAQQ	DFIFYSNVED	DSTNGFHDVC	GPKNELDEDT	CQCVCKGGLR
Qua	NQICRCLAQH	DFGFSSHLGD	SDTSEGFHIC	GPKNELDEET	CQCVCKGGVR
	301				350
Hum	PASCGPHKEL	DRNSCQCVCK	NKLFPSCGA	NREFDENTCQ	CVCKRTCPRN
Mou	PSSCGPHKEL	DRDSCQCVCK	NKLFPNSCGA	NREFDENTCQ	CVCKRTCPRN
Qua	PISCGPHKEL	DRASCQCMCK	NKLLPSSCGP	NKEFDEEKQ	CVCKKTCPKH
	351				400
Hum	QPLNPGKAC	ECTESPQKCL	LKGKFFHHQT	CSCYRRPCTN	RQACEPGFS
Mou	QPLNPGKAC	ECTENTQKCF	LKGKFFHHQT	CSCYRRPCAN	RLKHCDPGLS
Qua	HPLNPAKIC	ECTESPNNCF	LKGKRFHHQT	CSCYRRPCTV	RTKRCDAGFL
	401	420			
Hum	YSEEVCRCPV	SYWKRQMS*			
Mou	FSEEVCRCPV	SYWKRPHLN.			
Qua	LAEEVCRCPV	TSWKRPLMN*			

FIG. 5



Reducing

FIG. 6A

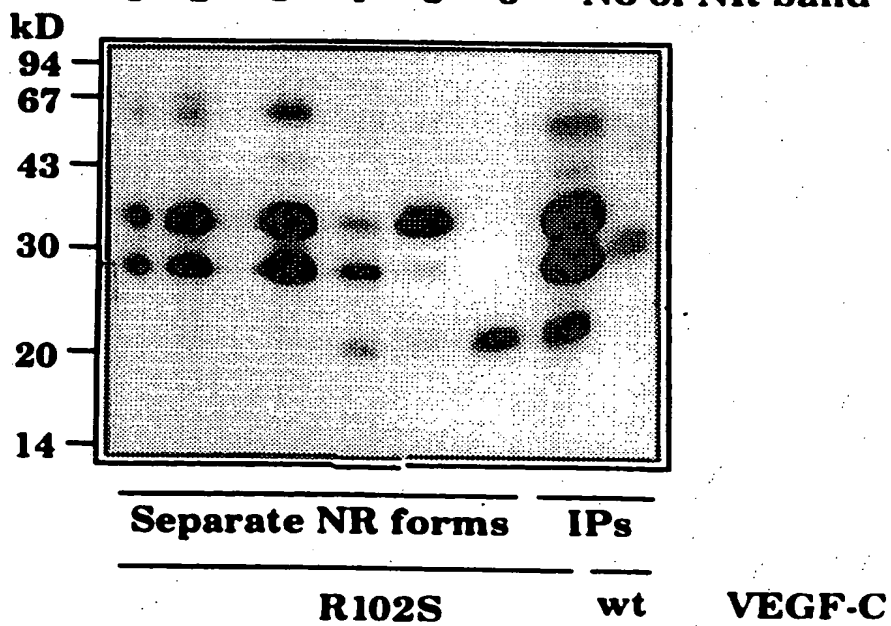
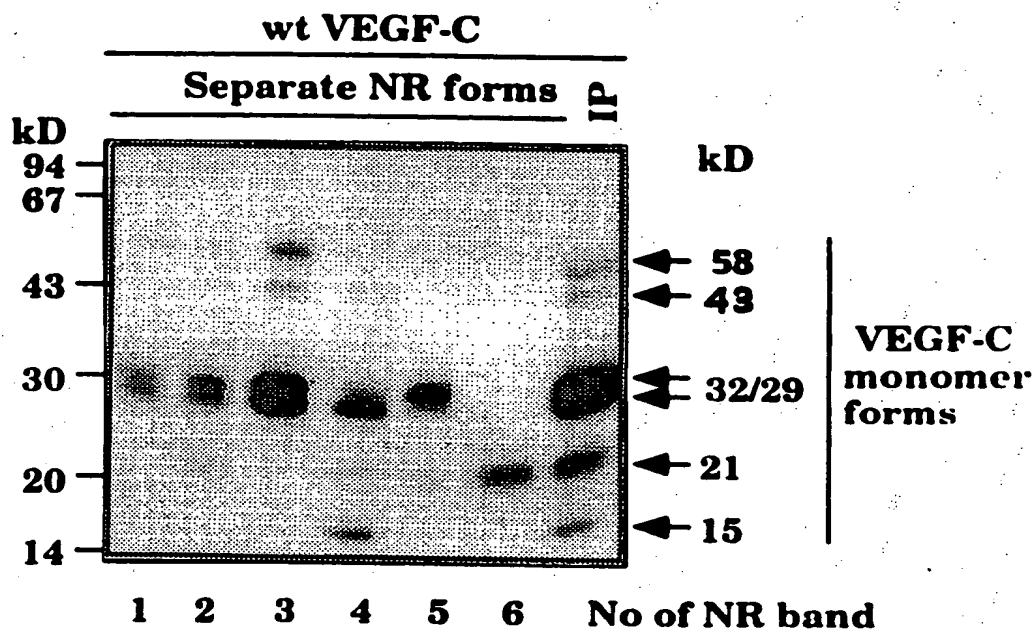


FIG. 6C

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# Non-reducing

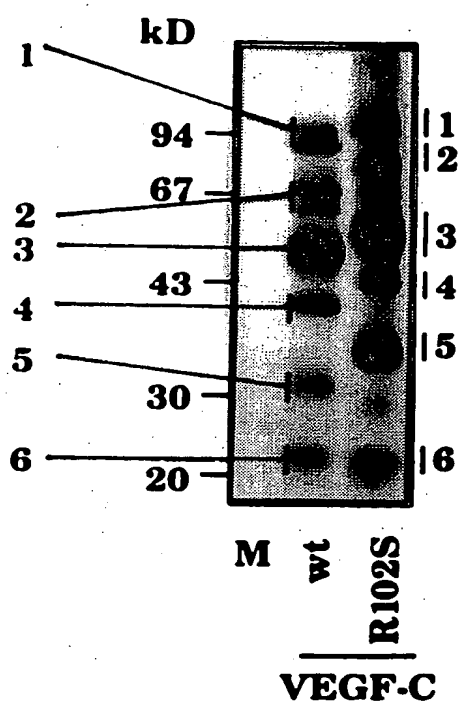


FIG. 6B

FIG. 7A

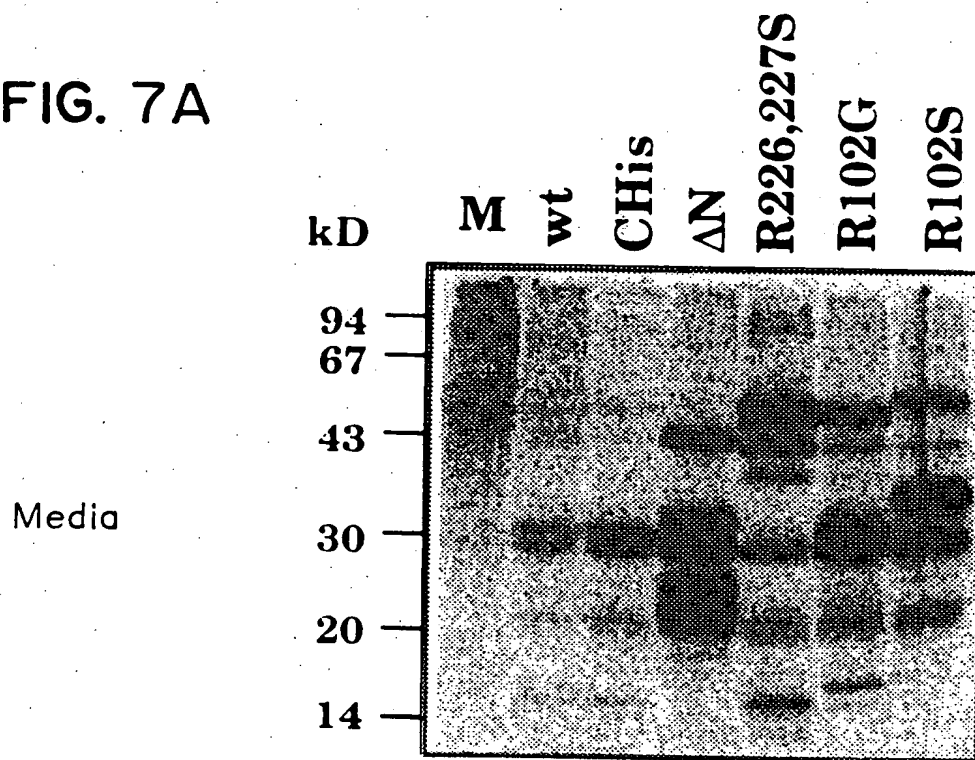
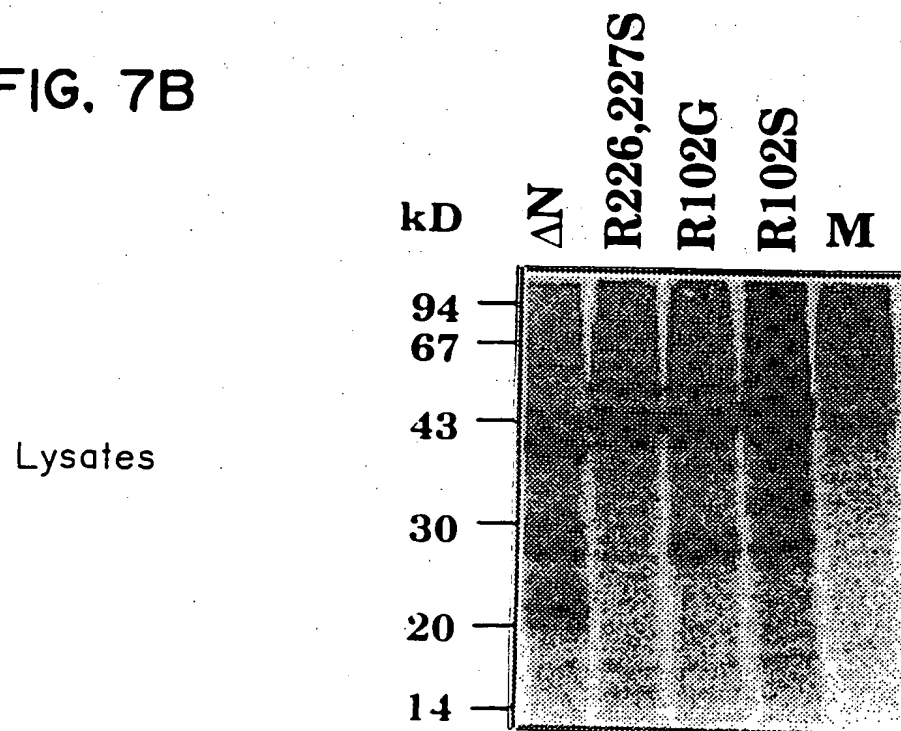
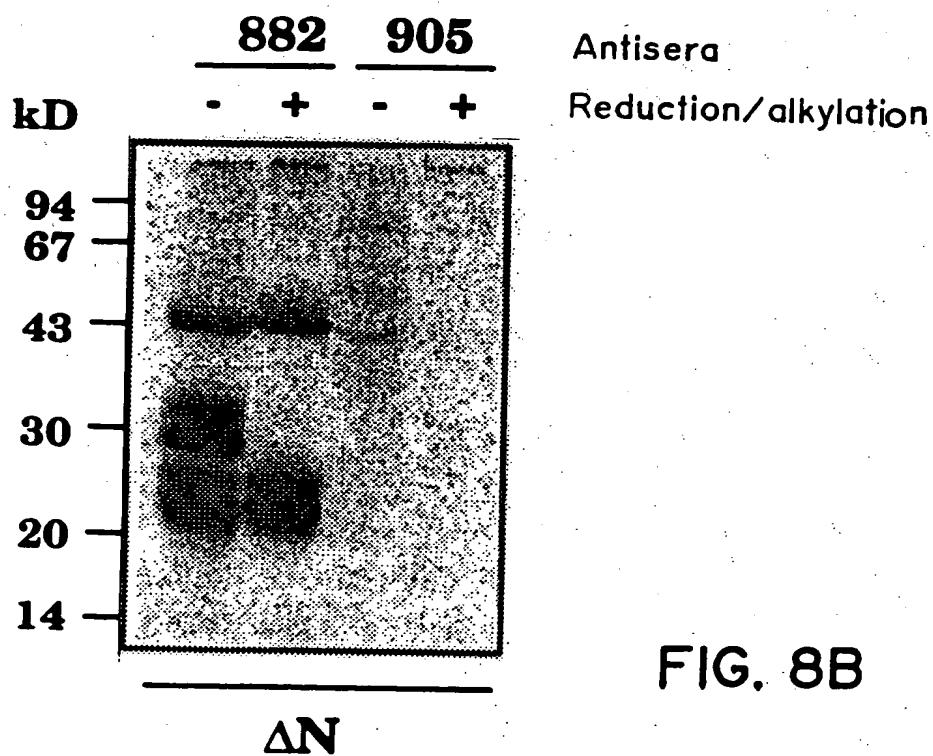
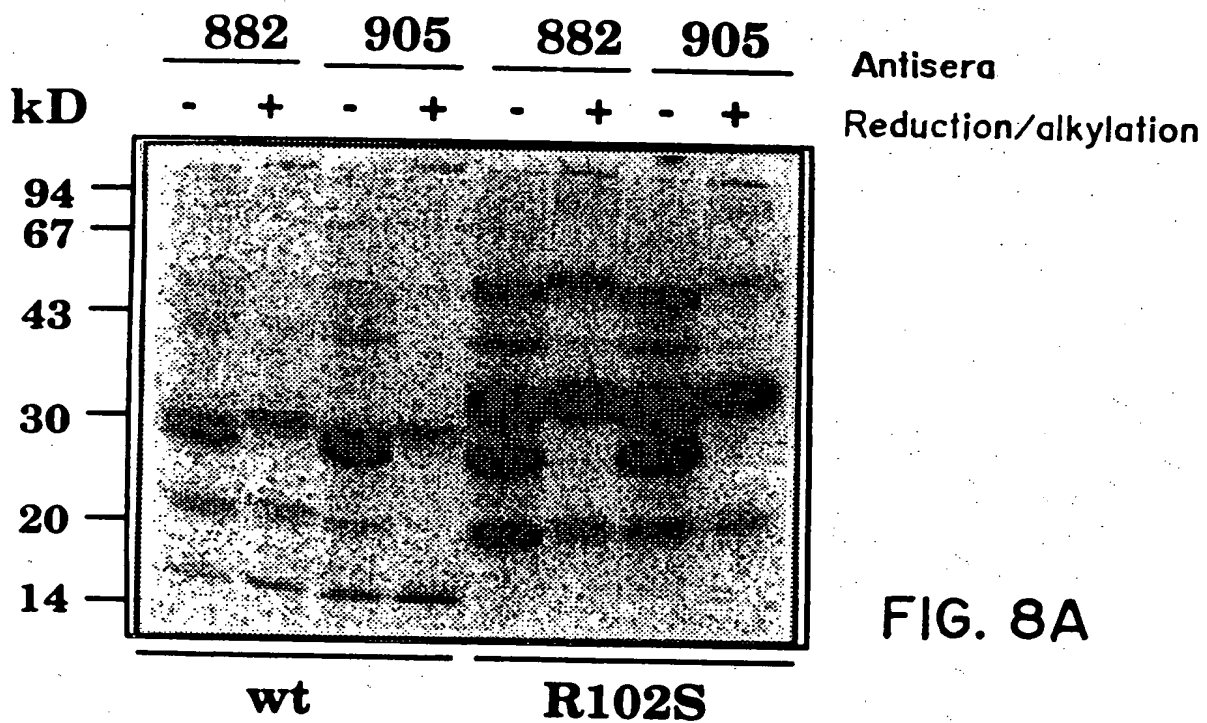


FIG. 7B





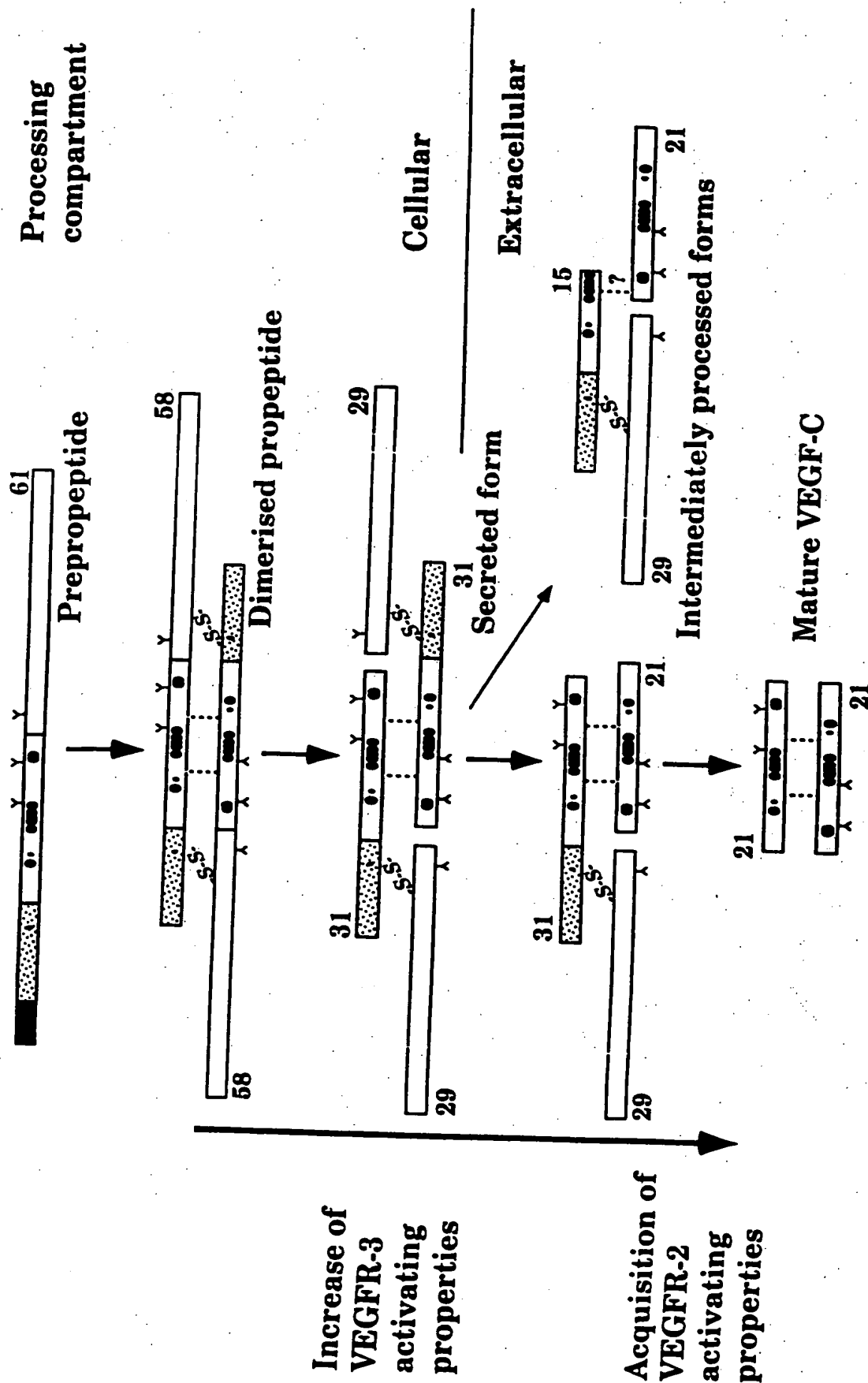


FIG. 9

**Signal sequence**      **N-terminal propeptide**

1      31      32

**mouse**      M H L L C F L S L A C L L A A L I P S P R E A P A T V A A      F E S G L G F S E A E P D G G E V K A F E G K N L E E Q L R S V

**human**      . . . . . G . F . V . . . . . L . G . . . . . A A . .      . . . . . D L . D . . . . . A . . A T . Y A S . D . . . . .

98

S S V D E L M S V L Y P D Y W K M Y K C Q L R K G W Q . . . . . Q P T L N T R

. . . . . T . . . . . E . . . . . . . . . . H N R E . A N . . S .

**VEGF homology**

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99      . . . . . C . . . . . C . . . . . R C . . C C . . . . .

T G D S V K F A A A H Y N T E I L K S I D N E W R K T Q C M P R E V C I D V G K E F G A A T N T F F K P P C V S V Y R C G G C C N S E G L Q

. E E T I . . . . . V . . . . .

C . . . . . C . C . . . . . 222

C M N T S T G Y L S K T L F E I T V P L S Q G P K P V T I S F A N H T S C R C M S K L D V Y R Q V H S I I R

. . . . . S . . . . .

**FIG. 10A**



RSLPATLQCAANKTCPTNYVWNNYMCRC LAQQDFIFYSNVEDDSTNGFHDVCGPNKELDEDTQCVCCKGGLRPSS  
 ..... M... HI ..... E. M. S. DAG. .... D. .... I. .... E. .... RA. .... A. ....  
 ..... C. .... C. C. C.

RA...A.

CGPHKELDRDSCQCVCNKLFPS  
.....N.....SQ

Q5

CGANREFDENTCQCVCKRT  
R.....

CPRNOPLNPGKCACEC

TENTQKCF LKGKFFHHOTCSCYRRP

SP...L.....

415

CANRLKHCDPGLSFSEEVCRCPVPSYWKRPHLN

T..Q.A.E..GF.Y.....QMS

FIG. 10B

# HUMAN

Exon length	Donor site	Intron length	Acceptor site
.....G...E...A...T(49)			
E1.....GGC.GAG.GCC.ACG.gtaggtctgcgt...>10.kb..TTTCTTTGACAG.GCT.TAT.GCA.AGC			A...Y...A...S.
.....E...I...L...K(116)			
E2.214.bp..GAG.ATC.TTG.AAA.Agtaagtatggg...1.6.kb....atgacttgacagGT.ATT.GAT.AAT			S...I...D...N.
.....L...S...K...T(180)			
E3.191.bp..CTC.AGC.AAG.ACG.gtggtattgt.....9.kb.ccccttctttag.TTA.TTT.GAA.ATT			L...F...E...I.
.....T...L...P...Q(231)			
E4.152.bp..ACA.CTA.CCA.CAGtgagtatgaattaa>10.kb..ttcttccaaagG.TGT.CAG.GCA.GCG			C...Q...A...A.
.....A...G...D... (266)			
E5.107.bp..GCT.GGA.GAT.Ggtagcagaatg.....301.bp....ctatttgtctagAC.TCA.ACA.GAT			D...S...T...D.
.....Q...T...C...S(378)			
E6.334.bp..CAA.ACA.TGC.AGgtaagatcc.....>10.kb..tgtctcctagC.TGT.TAC.AGA.CGG			C...Y...R...R.
.....Q...M...S(419) Stop			
E7.(501).bp..CAA.ATG.AGC.TAA.GTATGTACTGTT...ATTGTATTAT			



# MOUSE

Exon length	Donor site	Intron length	Acceptor site
.....G...E...V...K(49)			.....A...F...E...G.
E1.....GGC.GAG.GTC.AAG.gtagtgcaagg.>10.kb.attgtctttgacag.GCT.TTT.TGA.AGG			
.....E...I...L...K(116)			.....S...I...D...N.
E2.201.bp..GAG.ATC.CTG.AAA.Agtaagtag.....4.kb...tgtgactcgacagGT.ATT.GAT.AAT			
.....L...S...K...T(180)			.....L...F...E...I.
E3.191.bp..CTC.AGC.AAG.ACG.gtaggtat.....9.kb..ttgtccctttag.TTG.TTT.GAA.ATT			
.....T...L...P...Q(231)			.....C...Q...A...A.
E4.152.bp..ACA.TTA.CCA.Cagtgagtatg.....10.kb.gtctcccaaaagG.TGT.CAG.GCA.GCT			
.....N...V...E...D(266)			.....D...S...T...N.
E5.107.bp..AAT.GTT.GAA.GAT.Ggtaagtaaaa...350.bp.....tctagAC.TCA.ACC.AAT			
.....Q...T...C...S(378)			.....C...Y...R...R.
E6.334.bp..CAA.ACA.TGC.AGgtaaggagtgt.....6.kb..ttttcccttagT.TGT.TAC.AGA.AGA			
.....H...L...N(415)Stop			.....polyA.....
E7.506.bp..CAT.CTG.AAC.TAA.GATCATACC...ATTGTATTATAAgctgtgaag			

